

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **4SNLED-LD5-63SL-SLC-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27404)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-63SL-SLC-UNV-L835-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR SQUARE LENS
Light Source: -
Ballast/Driver: -

Summary

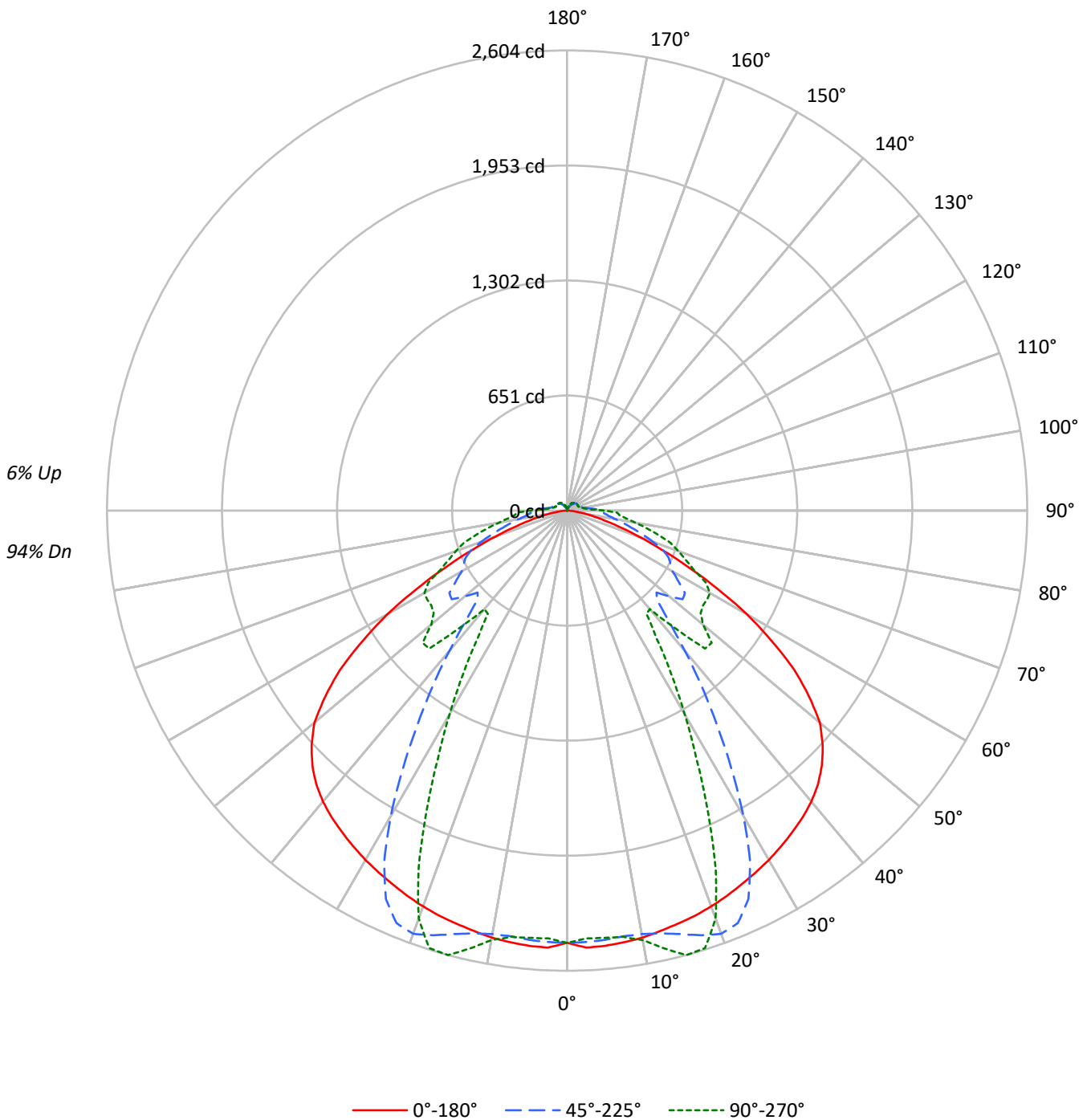
Lumens per Lamp: N/A
Luminaire Lumens: 6281.1 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1 / 1.08
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 52
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	92	94	91	88	89	87	84	85	83	81	78
2	98	90	83	77	95	87	81	76	83	78	73	79	74	71	75	71	68	66
3	89	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56
4	82	71	62	56	80	69	61	55	66	59	53	63	57	52	60	55	51	49
5	76	63	55	48	74	62	54	48	59	52	47	57	51	46	54	49	45	43
6	70	58	49	43	68	56	48	42	54	47	41	52	45	41	50	44	40	38
7	66	52	44	38	64	51	43	38	49	42	37	47	41	36	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	37	32	30
9	57	44	36	31	56	44	36	31	42	35	30	41	34	30	39	34	29	28
10	54	41	33	28	52	40	33	28	39	32	28	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19759	19759	19759
5°	20000	19296	19059
10°	20025	19003	18994
15°	20079	19271	19796
20°	20266	19844	18582
25°	20518	19072	14308
30°	20924	15973	10177
35°	21442	12097	6892
40°	22097	8794	5835
45°	22598	6379	9173
50°	22630	7064	8706
55°	21153	8130	8598
60°	18023	7439	9138
65°	13559	7503	8359
70°	9515	6830	7780
75°	6235	5722	6982
80°	3981	4902	5811
85°	2145	4659	5217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.6	3.7
10°-20°	702.5	11.2
20°-30°	1020.5	16.2
30°-40°	975.0	15.5
40°-50°	891.9	14.2
50°-60°	823.5	13.1
60°-70°	654.1	10.4
70°-80°	403.8	6.4
80°-90°	219.9	3.5
90°-100°	111.1	1.8
100°-110°	69.8	1.1
110°-120°	59.2	0.9
120°-130°	48.3	0.8
130°-140°	34.7	0.6
140°-150°	21.4	0.3
150°-160°	10.1	0.2
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	1955.6	31.1
0°-40°	2930.7	46.7
0°-60°	4646.1	74.0
0°-90°	5923.8	94.3
90°-120°	240.1	3.8
90°-150°	344.4	5.5
90°-180°	357.0	5.7
0°-180°	6281.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2445	2445	2445	2445	2445	
5°	2472	2434	2439	2426	2427	235
15°	2420	2388	2481	2573	2604	685
25°	2335	2380	2426	2053	1886	1079
35°	2221	2185	1473	1014	882	1393
45°	2039	1422	719	917	1104	1567
55°	1568	730	814	876	937	1381
65°	757	473	634	771	789	765
75°	223	252	380	503	537	253
85°	31	107	215	293	298	40
90°	1	80	193	228	211	2
95°	0	75	133	118	112	0
105°	0	67	82	75	74	0
115°	0	55	79	70	67	1
125°	1	44	70	68	65	1
135°	1	31	56	62	60	1
145°	1	20	39	50	53	1
155°	2	12	24	31	38	1
165°	2	6	12	15	21	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2445.1	2445.1	2445.1	2445.1	2445.1
2.5°	2475.4	2439.7	2444.1	2436.5	2423.5
5°	2472.2	2434.3	2438.6	2425.7	2426.7
7.5°	2463.5	2424.6	2430.0	2427.8	2433.2
10°	2453.8	2412.7	2433.2	2451.6	2467.9
12.5°	2436.5	2399.7	2449.5	2503.6	2537.1
15°	2420.2	2387.8	2480.9	2572.9	2604.2
17.5°	2404.0	2383.4	2519.8	2599.9	2595.6
20°	2383.4	2381.3	2549.0	2522.0	2456.0
22.5°	2360.7	2382.4	2526.3	2328.2	2198.3
25°	2334.7	2380.2	2425.7	2053.3	1885.5
27.5°	2308.8	2370.4	2242.7	1752.4	1586.8
30°	2282.8	2344.5	1995.9	1477.5	1327.0
32.5°	2252.5	2288.2	1727.5	1233.9	1095.4
35°	2221.1	2185.4	1473.1	1014.2	882.2
37.5°	2188.6	2037.1	1244.8	821.5	737.1
40°	2149.6	1850.9	1034.8	704.6	727.4
42.5°	2100.9	1640.9	849.7	739.3	897.3
45°	2039.2	1422.3	718.7	916.8	1104.0
47.5°	1961.3	1212.3	686.2	1049.9	1108.4
50°	1867.1	1019.6	754.4	1006.6	1002.3
52.5°	1724.3	859.4	823.7	917.9	952.5
55°	1568.4	729.5	814.0	875.7	937.4
57.5°	1371.4	641.9	746.9	867.0	938.4
60°	1175.5	583.4	689.5	865.9	933.0
62.5°	959.0	530.4	660.3	845.4	885.4
65°	756.6	473.0	634.3	770.7	789.1
67.5°	580.2	414.6	588.8	687.3	724.1
70°	437.3	357.2	517.4	623.5	668.9
72.5°	315.0	303.1	443.8	567.2	614.8
75°	223.0	252.2	379.9	503.3	536.9
77.5°	153.7	205.7	325.8	433.0	460.0
80°	100.7	164.5	277.1	372.3	390.7
82.5°	60.6	132.1	240.3	325.8	335.5
85°	31.4	107.2	215.4	293.3	297.7
87.5°	9.7	89.8	201.3	278.2	283.6
90°	1.1	80.1	192.7	228.4	211.1
92.5°	0.0	75.8	166.7	155.9	139.6
95°	0.0	74.7	133.1	118.0	111.5
97.5°	0.0	72.5	109.3	98.5	95.3
100°	0.0	70.4	94.2	86.6	85.5
102.5°	0.0	69.3	85.5	79.0	77.9
105°	0.0	67.1	82.3	74.7	73.6
107.5°	0.0	63.9	80.1	72.5	70.4
110°	0.0	60.6	80.1	71.4	68.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	57.4	80.1	70.4	67.1
115°	0.0	55.2	79.0	70.4	67.1
117.5°	1.1	53.0	77.9	70.4	67.1
120°	0.0	50.9	75.8	70.4	66.0
122.5°	1.1	47.6	73.6	69.3	66.0
125°	1.1	44.4	70.4	68.2	64.9
127.5°	1.1	41.1	67.1	66.0	62.8
130°	1.1	37.9	63.9	64.9	61.7
132.5°	1.1	34.6	59.5	62.8	60.6
135°	1.1	31.4	56.3	61.7	59.5
137.5°	1.1	28.1	52.0	58.4	58.4
140°	1.1	24.9	47.6	56.3	57.4
142.5°	1.1	22.7	43.3	54.1	55.2
145°	1.1	19.5	39.0	49.8	53.0
147.5°	1.1	17.3	34.6	45.5	49.8
150°	1.1	15.2	30.3	41.1	45.5
152.5°	1.1	13.0	27.1	35.7	42.2
155°	2.2	11.9	23.8	31.4	37.9
157.5°	2.2	9.7	19.5	27.1	32.5
160°	2.2	8.7	17.3	22.7	29.2
162.5°	2.2	7.6	14.1	19.5	24.9
165°	2.2	6.5	11.9	15.2	20.6
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)